4 B. 46- 900

G. R. S. IX-5]

Previous references.

1900-

191 .

(munpl.)

Later references.

File No. 47 of 1

Serial Nos. 1-6

GENERAL AND REVENUE SECRETARIAT.

Serial Nos. 1-6.

Major ~~Part~~ B for May 1901.

SUBJECT.

Report on the condition of drainage & water systems in the Mysore city Municipality

---

Indexed

W b 88—GPB—50,000—24-7-18

The 2nd Commissioner

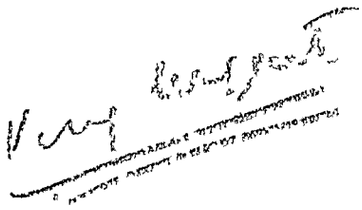
This report discloses a most lamentable Condition of things in the Mysore Municipality

An explanation shd. be called for from the Municipal officers concerned, and the President shd be asked to submit the same as quickly as possible together with his own remarks as to what extent the blame rests on the various officers, and the measures he wd. propose as regards the future

When the foregoing is rec'd the Govt. shd pass orders placing the management upon a satisfactory basis.

I shd like this matter to be treated as one of special urgency.

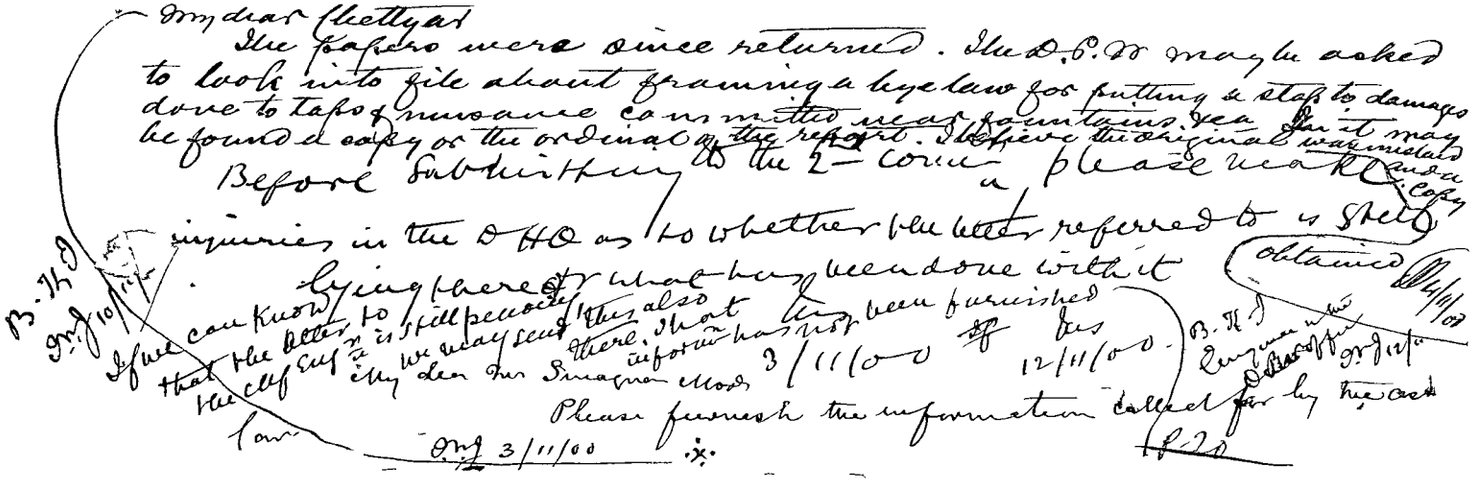
3/7/00



Mrs Webbs are
sent in reply
to the High Sheriff
Enquiries for very
early attention
& full report.

Yours
Miles Thackeray

22 VIII 00



subject & approved the suggestion of the Secy made in his marginal remarks

Secys remarks Dy 19/11/01.

on Letter etc 440 Dy 20/10/1900 from the Presidt. rel Co Chyam Cty

Office Is there any confusion I find a no of letters in the two accompanying files. Do my pencil notes in the margin of the office mem. in Tele etc 103 of 1892 and the 2 Councillors order thereon of the 17th Inst, exhaust the question or questions before Govt. Let one have a short but a clear note containing a complete narration of the case as quickly as possible

If both files relate to the same subject, why not have a single file with a note continued & brought up to date

3 Drafts on points on which orders have been passed are herewith submitted.

There are 2 refers from the Presidt etc 192 & 440 Dy 17/9/1900 and 20/10/1900, requiring orders

A memo as herewith submitted

There will also be the usual letter to the Govt by the Secy & a letter by the Medical Officer

4/12/01

One file relates to Thakurchaly water works & other Cantt water works.

They are kept separate Dy.

They will be sent to Secy at Head Quarters

Recd 30/1/01 Hazara

[illegible]

Sec.

The Memo on Secretaries - Olympia water supply" said to have been sent with Supty Engineer note of 3/4/01 has not been received in this office. I tried to obtain the same from the Supty Engineer's office but in vain. To avoid further delay, this is submitted for orders as to whether the memo. may be called for.

Org 2/8/01

Engr

Asst Engr

Rec'd & Drafted Org 2/5

Mail 3/5

1900
~~189 —9~~ L478

Section Mysore
File No 47 From GOI
Serial No — The

3141
19-9-00

The President, City Municipality
Mysore ~~District.~~

To

The Secretary to the Government of Mysore,
General and Revenue Departments.

Dated
Despatched } 17th September 1900
Received

Enclosures No. 1

General No. 1107

Submitting an explanation on the present condition of Sewage works in the Mysore City

Subm Mead From enquiries made in the Chief Engineers office, it is ascertained that the letter of 20/25 June last-quoted within was submitted to Dewan on 29th Idem but is not as yet been received back in office. That it has been forwarded with the last answer preferences

Subsequently the Dewan's D.O. dated 2/11/00 correspondence ending with letter dated 8/11/00 from Chief Engineer to the 2nd Councillor ~~of date~~ 2/11/00 was received on the subject, ~~a reminder was made for the letter sent by the Chief Engineer to the Hon. Dewan.~~

Submitted The Supt Engineers reference, last letter is stated to have been submitted by the Chief Engineer to the Dewan on 27/6/00 but has not yet been received back,

Submitted the 2nd Councillor's reference dated 8/11/00 to the Chief Engineer's letter No 899/5042 dated 23/10/00 &c &c

29/11/00 No 30/11/00

K. Moody
Dy 25/10/00

257 & 700.

Dy 17/11/00

No. 192

Enclosures No. 1

OFFICE OF THE President City Municipality
MYSORE DISTRICT,

Dated 17th September 1900. ~~189~~

To

The Secretary to the Government of Mysore,
General and Revenue Departments.

SIR,

With reference to Sanitary Superintending Engineer's letter No. 1290/257 dated 20th June 1900 to the Chief Engineer, reporting on the present condition of sewage and water distribution works in the Mysore City after being handed over to the municipality and suggesting that all the Sanitary works requiring special Engineering Knowledge should continue under the control of the Sanitary Department and form the subject of a biennial special report to Government, I have the honor to report as follows :—

First, with respect to the Fork Sewage works.

The sewage system in the Fork was made over to the municipality in October 1899 and Sewage diversion from Doddapetla-

to the sewage farm on the Mahadevapur road on the 15th June 1891 and the sewage of Sunkepet road subsequently.

Since the sewage System in the Fort was handed over to the Municipality, a peon on Rs 7/- per month and six permanent cleaners on Rs 6/- each per mensem, have been employed to do the cleaning and other petty works with the occasional help of other Municipal sweeper under the Supervision of the Fort Conservancy Overseer. The Sanitary Inspector inspects the work twice a week and reports on its Condition The repairs if any are occasionally attended to by the Municipal Engineer.

With reference to the remark that the Municipality has spent only Rs 50/- for the maintenance of the sewage system in the Fort, I beg to state that the Sanitary Superintending Engineer, asked for a Statement of expenses incurred by the Municipality for its annual repairs while all the hands in the Office were fully engaged in the Royal marriage arrangements The accountant by oversight collected [illegible]

relating to only one years expense and sent the same to the Superintending Engineer. Now a Statement shewing the amount spent since the sewage system was taken charge of by the Municipality is herein enclosed for reference. From the same you will see that Rs 771-10-0 has been spent for Cast iron Covers to replace the wooden lids used by the Sanitary Department; that Rs 586-1-1 has been spent for giving connections to 33 houses as they were omitted when the sewage system in the Fort was Completed and handed over to the Municipality for annual maintenance and that Rs 178/- has been spent for renewing the wooden frames and three pavings whenever they required urgent repairs.

The annual repairs in the Municipality are done by the Khalighath Establishment which includes a mason and a brick-layer who attend to the works, only the materials required being purchased in the Local market. Thus the actual expenses incurred are not given as a guide for arriving at any conclusion that the municipality has neglected its work.

W.T.

With reference to the remarks that the flushing tanks are not working, I beg to add that the tank mentioned in the report is in working order and it has been inspected by the Councillor and by the acting Sanitary Com-missioner. It must be remarked that unless these tanks are in good working order, the whole system will fail.

With reference to missing gratings, I have to state that they are of cast iron and are easily removable - not being permanently fixed to the mouths of each connection. Necessarily some will be wiped but they are replaced whenever the fact is brought to notice. They are generally stolen or carried away by mis-chievous boys. There are several instances of clandestine removal of Chimneys from the lanterns, taps from public fountains and - wooden shutters from manholes Besides that the inspection was made during the Royal marriage festivities when the floating popula-tion of the City was alone more than double the permanent residents. It is needless to say that on such an occasion it is [illegible]

house Connection cisterns were used for pur-
poses of nature, but they were cleaned out
the next morning. If a Copy of the inspection
note had been sent home without troubling the
Government on a small matter like this,
immediate steps would have been adopted to
remedy the evil.

The damage to packing round the
wooden frames is of every days occurrence
owing to cart traffic and the same is repaired
without unnecessary loss of time by the special
establishment maintained for the purpose.
When the whole municipal establishment was
engaged in keeping the City as clean as possible
during the Royal marriages this work could
not receive prompt attention but the requisite
repairs were since carried out. The accompa-
nying Statement shews that Rs 75 has been
spent for the purpose. The Municipality has
laid out new sewage pipe lines in several
parts of the City and they are working very
satisfactorily.

Submitted to the Sanitary Commis-
sioner for information.

Bombay

Superintending Engineer's remark about silting up of main drains and their becoming entirely choked up in no distant future, I beg to state that a Khalikath establishment consisting of 18 men Coolies, 10 women Coolies, one mason and two Carts, is daily engaged in cleaning the silt from flood water and sewage main drains with the help of additional hands and carts if necessary. The main flood water drain in the Fort was cleaned by Contract during the year 1897-98 at a cost of Rs 410-"-" and the main drain between the Fort South east Corner and Iruvan Agraharam at a cost of Rs 470/- and twice by the Khalikath establishment. Thus it will be seen that every attention is paid to keep the drains as clean as possible and they are not neglected as reported by Sanitary Superintending Engineer. The machanism used in the sewage project is not so very complicated as to require the trained eye of an expert specialist, as suggested by the Sanitary Superintending Engineer, as it is now in my humble opinion satisfactorily managed by municip-

- connected either with the municipality or the Sanitary-Department, may be asked to inspect the works and make a detailed report. I may suggest that Mr. Raghavalu Naidu who is incharge of the reconstruction on the Palace, may be deputed to do so if the Government consider it necessary.

A separate report will be submitted as regards the remarks of the Sanitary Superintending Engineer about the up-keep of water distribution in the City.

Some-time ago the Sanitary Commissioner Dr. Benson and Major Lothiniere examined the drainage works of this City without any previous notice and they were quite satisfied with the working of the drainage System.

In Conclusion I may be permitted to state that the remarks of the Sanitary Superintending Engineer, that the administrative members of the municipality are themselves not sufficiently impressed with the amount of attention necessary to preserving these

these works in efficient working order is uncalled for and unjustifiable.

I have the honor to be,

Sir,

Your most obedient Servant

H Thompson Hayes

for President

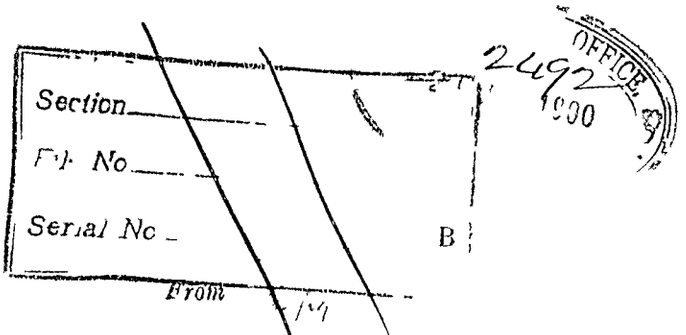
Mysore City Municipality

g the Expenditure incurred by the Municipa-

e the repairs of the Sewage works, Mylapore Post

Items of Expenditure	Amount	Total	Remarks
of maintaining a permanent esta-			
ishment one peon on Rs 7 and 6 Sweepers on Rs 6 each per mensem	5160	51 60	
re manhole covers through Sanitary Engi	250 13		
lue of work for fixing circular manhole			
in lieu of wooden ones during 1894 95	485 13		
——— Do ———	35	771-10	
Sewage cleaning apparatus ———	150	150	
Sewage connection for Coss. Narrohatty near Chamiers Road	78	78	
Wooden frames for manhole covers replaced			
& the Masonry packing round, renewed in 96-9	35		
——— Do during 1898 - 1899	15		
——— Do - during 1899 - 1900 ———	45		
——— Do ———	15		
——— Do ———	68	178	
Sewage house Connections effected			
during 1894 - 1899 at a cost of —	586 1 1	586-1-1	
Renewing the Masonry packing round the wooden frames ———	75	75	
——— Total Cost ———	6998 11	6998 11-1	

For Municipal



The Sanitary Engineer with the
Govt. of Mysore.

To

The

Dated

Despatched

Received

General No.
No.

Enclosure

Reporting on the Condition of the Sewerage & Water Distribution Works in Mysore after having handed over to Municipalities and suggesting that all Sanitary Works requiring Special Engineering Knowledge should continue under the Control of Sanitary Engineer and form the subject of triennial Sanitary Reports to Govt.

mitted to Deneau for
emation and Orders.
report shows utter
ect on the part of the
Authorities.
my opinion it is
ter to have no drainage
Water systems than
s that are so neglected
they thus positively
me a source of
nger.
t will be well to
ke all drainage and
ter supply Scheme
hange of the Sani-
ry Department,
t department being
ngthened and the
unicipality paying
the Extra Establish-
ent required ——

Consider Como
& the Govt of Mysore
PW Dept

6/00

No. 1290/251

Sntg

OFFICE OF SANITARY ENGINEER WITH THE GOVERNMENT OF MYSORE

DATED ~~BANGALORE~~ Camp Mysore, THE 20th/25th June 190

From Sntg:
THE SANITARY ENGINEER WITH THE GOVERNMENT OF MYSORE.

To

The Chief Engineer
of Mysore.

Sir,

I have the honour to forward herewith a copy of a letter from the Municipal Commissioner for Bangalore, regarding the water supply and drainage of the Civil Station and Cantonment of Bangalore.

I have also to request that you will be good enough to move the Government to sanction the proposals contained in the Municipal Commissioner's letter.

I have the honour to be,
Sir,
Your most obedient servant,

in Charge of Municipalities was noted on the margin and total Rupees.

	Rupees
1- Sewage Farm Ady Sora	35,660.
2- Kukerhalli Distribution Ady Sora	109,718.
3- Additional ——— Ditto ———	110,957
4- Diversion of the Main Drainage from Entrance Tanks	14240
5- Water supply Pumping ———	32,862
6 ——— Ditto ——— Engines. ———	20,330
7 ——— Ditto ——— Mains. ———	20322
8 ——— Ditto ——— Stores. ———	16,105
Total Rupees	360,188

III [illegible]

our Gratings Sons, & blocked and our
with a Terrosina oil tin, put into the
cistern. Then took Corers Satin wooden
& mine horse Sons & then cost the masonry
[illegible] Tom and horse found
[illegible] and rats or other vermin into the [illegible]."

[illegible]

"[illegible]

[illegible]

"[illegible]

[illegible]

want of knowledge of the System in the
Subordinate agency of the Municipalities,
and the want of its regular execution by the
Municipal Executive, not unfrequently of the
nature requiring [illegible]
inspection [illegible]
shows that [illegible]
[illegible]
[illegible]

IV [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

10 1/inch connections

no road boxes were supplied by the sanitary Engineer."

(c) - "Several road-boxes were buried under ground, and difficult to trace, evidently owing to the gradual repair of the road and to the road-side not being raised on a level with the main Embankment."

(d) - "Fountains in a neglected state of repair"

(e) ~ "The valves are leaking owing to the glands not being packed from time to time."

(f) - "There is a Fountain or dipe-well at Ramanna's Street which is bottomless a one inch pipe. This is Sand-stone-stone which might give access to a good mass of water."

(g) - In Tamil town there are many drain-pipes supplying fire connections which are not Sufficient in case of fire, and that there are several places

supply leads the Spring which is tapped by the wall, and does not increase the water given off the wall itself.

(h) For 12" water in Green's road, which separates the Rutherhith from the Common Sewer, is only 6 or 8 feet; the spindle being sent. This was seen by the Surveyor & Engineer.

I. In the Smaller Communications, instead of by equidiam, the magnet and micrometer would be much greater; and where Communications are limited there might be small & large annular tubes, the latter with the same to supply water only to the lower levels, others to the higher levels being shut off by the Excavator depth from top.

[illegible]

[illegible]

and management. The only comment that I can suggest is, that all work requiring engineering skill should continue under the control of the Engineer, & not placed under [illegible] and should form a distinct department, which Engineer can be called on to advise in for thoroughly knowing the work done, [illegible] to keep down [illegible] to small compass.

190 0

L 1084

FROM

The President
City municipality
mysore

Submitted in continuation previous papers are pending with the 2nd Councillor

Section 12 V/10 No.

File No. 47

Serial No. 2

To The Secretary to the Government of Mysore
Revenue and General department

Dated 20th Oct 1900

Despatched 16th Decr 1900

Received

General No. 440

No.

Enclosure No.

To

Submitting the Explanation on the Remarks made by the Sanitary Superintending Engineer regarding the Water Works in the City

I submit I have no over the subject & approved of the suggestions of the Secretary made in his marginal remarks

19/1/1901.

Received 19/1/1901.

Do there any explanation to be given in the two accompanying files. Do any remarks noted in the margin of the office memo in Diff No 103 of 1892 & the 2nd/3rd order thereon of the 17th Instt, exhaust the question or questions before Govt. Let me have a short but clear & complete statement of the case as speedily as possible.

19-1-01

L 2
18.1.01

Rd 26.XII.00

Submitted
Please obtain
from the Sanitary Engineer a noted written Note of 18/12/00

440.

Enc. No.

MYSORE CITY MUNICIPAL PRESIDENT'S OFFICE,

Dated 20th October 189/1900

To

The Secretary to the Government of Mysore,

Reveuue and General Departments.

SIR,

In Continuation of my letter No 192 dated 17th September 1900 regarding the remarks of the Sanitary Superintending Engineer " that all the rules for ascertaining whether water is available in any particular water main to permit of a new house Service are discorded " I have the honor to state as follows —

2 In the year 1890 Kukerahully water distribution works were handed over to the municipality with 150 public fountains and 21 house Connections Then the Vanivilas water works were begun and Completed by the Sanitary Department The number of house Connections and fountains had by this time increased to 164 and 176 all of them being supplied from Kukerahully Tank - Public fountains being given in poor localities and house Connections where people could afford to pay for the same with the Consent of the Sanitary Engineer in many cases —

Even after the Completion of the

Engineer was Consulted, whenever house Connections were given and a Statement is enclosed showing the house Connections which he approved of

3 In building public fountains Mr. Lee was Consulted and with his approval their number was increased by 124 for the Convenience of the people The municipality has been subsequently giving house Connections without Consulting him as per his request Vide his docket No $\frac{2121}{697}$ dated $\frac{20}{25}$ May 1899 | Not worth perusal
Even then he was asked to supply pressure gauge for ascertaining the pressure on the main before giving any more connections this he promised to supply at a cost of 5£ which the municipality was willing to bear, yet the promise was unfulfilled

4 Only 9 house Connections and 3 fountains in the Fort were given by the municipality without any reference to him on account of the low level of the locality, there was, according to his assurance, no difficulty in supplying water He had no objection to increasing the number of house Connections in Chamraj Mohalla (Vide his No $\frac{445}{871}$ dated $\frac{10-8}{11-8}$-1897)

Applications for house connections having increased, the Chief Engineer was addressed on the subject and in his reply, he saw no objection to Comply with the request of people On the face of these facts, it is not clear why the Superintending Engineer represented to the Government that the municipality violated the rules laid down by him

5 With regard to allowing water to two wells in front of Sitavilas -- Agrahar, I have the honor to state that these houses were built before the Completion of Vanivilas water works This arrangement was made by the then Palace Controller and it is still Continued so that the occupants may not suffer from want of water, when the turbine fail to work as is often the Case There Cannot be any waste in those wells as they are of masonry work though it is doubtful whether the use of such wate is Conducive to health

6 With regard to the masonry Cistern well in Ramanuja street, I beg to state that it was built before the Completion of the Cauvery wate works to let in Kukeratully water and the locality is of higher level than the surface of the above tank

7 The Cauvery water is supplied only during the day [illegible]

during [illegible]

improving
is informed that the Cistern
would. If it did actually occur,
certainly the street and houses close
by would have been damaged No
such Complaint was ever received
from the residents in the immediate
Neighbourhood

When Wardens are given in
the house Compounds the orthodox
people construct small watermoby
their side and a shower to run into
them for use as they consider it when
-ever objectionable from a religious
standpoint Such private Cisterns do
not number more than 6 Most of them
in Stanleigh are inspected per Govern-
ment order in their Proceedings No 3716-36 / 749-69
dated 1st August 1894 and took no objec-
tion to the same

9 As regards the want of
beds for several road boxes, of Values
and stock locks, I am to state that are-
very easily removed and in the rare
particular case to be out of the reach of
these children, steps will be taken for their
removal in which a notice to amend
damage to Municipal [illegible]
[illegible]
[illegible]
[illegible]

10 On the 11th August 1900, the Sanitary Department proposed to transfer additional Tramway water distribution to the Municipality Taking over charge of these works it was observed that the Sanitary Department itself failed to use road boxes in many cases and in some to replace the lost lids A detailed inspection report before taking charge of the additional Tramway water distribution has already been submitted with my letter No 192 dated 17th September 1900

Put up plan Orig 18/12

Taken charge of Municipality 26th October 1900

Govt Proceedings 12-4 dated 15-2-1900 -92

11 The 12" Valve in the Dewani Road which separates the Kukerahalli from the Tramway supply is still in the charge of the Sanitary Department This and others under the supervision of that Department were required to prevent leakage and it is therefore not likely that the valves which the municipality is in charge of, will be allowed to be in disrepair

16-12-1900

12 The extension of the -½" iron main from the Dewan's house-road in the public office road to the Palace was not taken over by the municipality. Several of the sections given are this. The

in accordance with the [illegible]

of the Sanitary Engineer as
will be found from the list-
appended

13 The number of fountains
in the City is 358 Of these the-
Sanitary Department is in charge
of 74 and the municipality of Vide Remarks Para 1
the remainder; Of these again
30 have been closed entirely Thus
there are 254 fountains to be cleaned
and repaired by the municipality.
About 30 per cent of these require
no more than petty repairs, viz,
plastering, each being not more
than 8 square feet.

14 In the Sanitary Depart-
-ment certain amount is provided
for Original and Repairs of
Sanitary works, &c, that Department
spends the amount allotted for the
year But in the municipality
such repairs are attended to
economically as the provision
made yearly is very small, a
Comparison of the present Condition
of the fountains and revenues in Vide Remarks Para
the charge of both the Departments
and the cost incurred therefor, will
prove beyond a shadow of doubt
that the municipality is not
unmindful of its responsibility

Nor is it

nor is it lavish in its expenditure.

15 The pumping station at Balagal is under professional hands, but yet both the turbines never work satisfactorily even for a month. Frequently either of these goes out of order, consequently the whole town cannot be supplied with filtered water. A large establishment is maintained at the pumping station to work the turbines and an allowance of Rs 30 is given to Serungapatam hospital assistant to give medical aid whenever necessary; nevertheless the subordinates resort to the Mysore hospital for treatment. The appointment of a last grade hospital assistant will be more economical and beneficial not only to the subordinates in the pumping station but also to the neighbouring villages where are five watchmen to work, the convenience of the Durwan (the watchman) head office to the subordinate house-to-house removal from the head bund of the channel. These men are paid by the municipality to work under the direction of the pumping house [illegible] who gets a house and Rs 30 for the house

Cochin town
the inspection notes of the Extra Assistant Commissioner in what state the channel is and that the services of the watchmen are not utilized for the purpose intended. An Extract of the inspection report is herein enclosed for reference.

16 With reference to giving house connections on the Nagar-kad road, I am to state that no house connections were given after the Sanitary Engineer had written to the Municipality not to do so; but strange enough, he gave a Connection to the building then occupied by the Madras Bank, though he requested the Vice-President to refuse Connection to the same.

The Municipality have given one or two public stands where they are actually necessary.

17 The Sanitary Department first laid main pipe to Government houses

houses on the Kuwal road and Padvankully. As water did not rise, they changed the line without any success. Now they intend changing it for the third time. The reason assigned is that the pipes are blocked up by the roots of trees, though there are no trees in the close proximity. For the third alteration, an estimate for Rs 1653 has been sent to the municipality which has to bear the cost, though the proper course — would have been to submit it to the Chief Engineer for sanction. The enclosures bearing on the subject are herewith returned

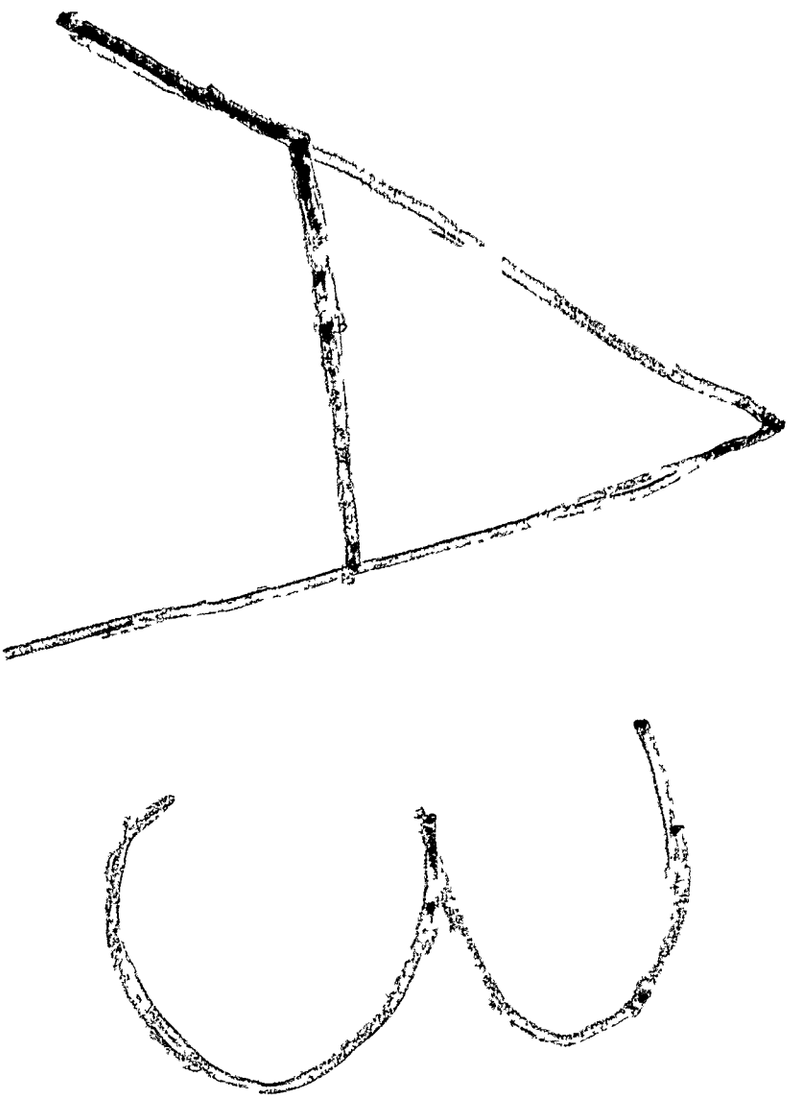
I have the honor to be,

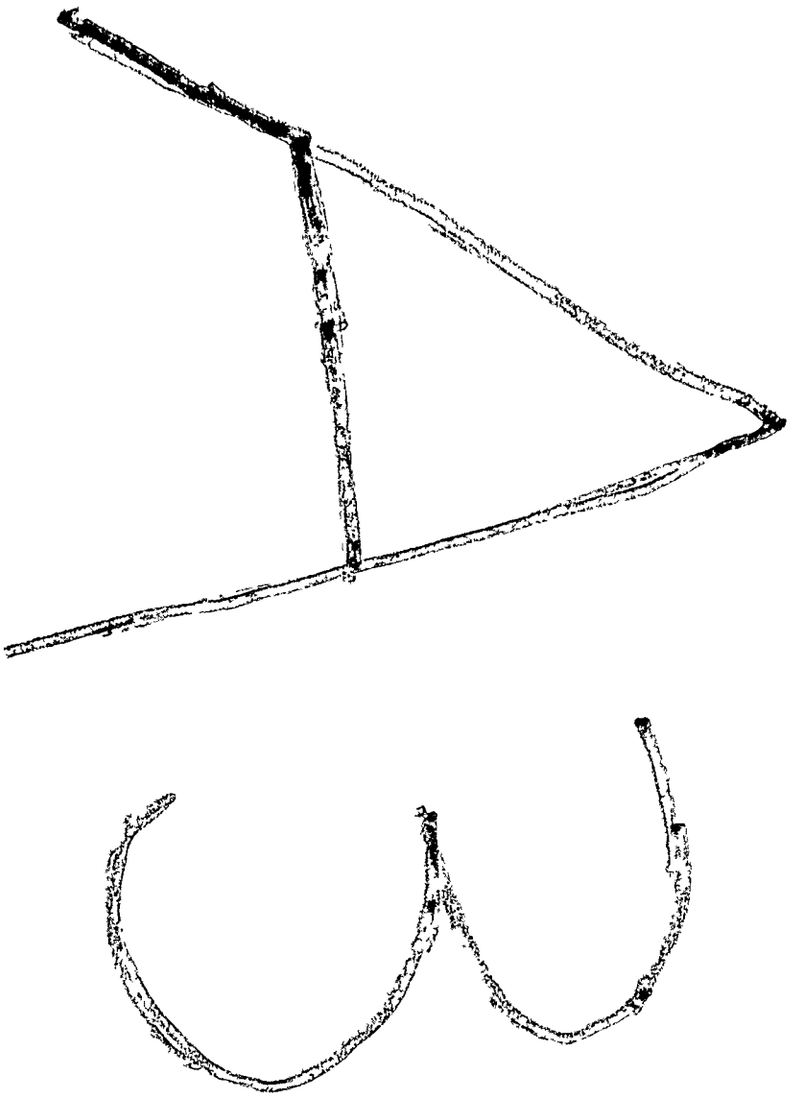
Sir,

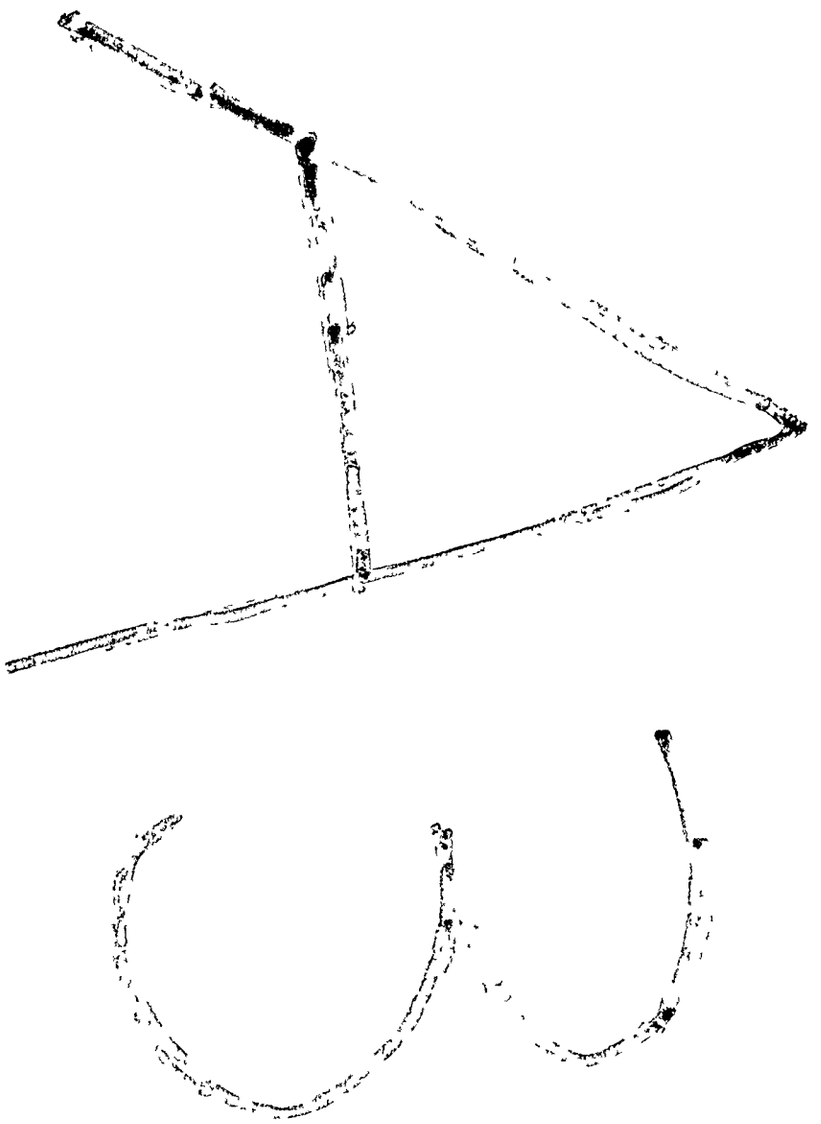
your most obedient Servant

H Chaigneau Cy Ens

For Overseer







Extract from Mr. Assistant Commissioner
A. Anandarao's report dated 10th August 1900.

) Although Special Establishment is retained
I am told, to keep the Chamal clear of
filth &c up to the Dwrbene Station, yet no
Care seems to have been bestowed on this
Matter —

Signed A. Anandarao —
(Assistant Commissioner.

For President

Read.— (3)

Chief Engineer's no dated 27th June 1900 submitting for orders of the Devonshire letter c/o 1290 dated 20th June 1900 addressed to him by the Sanitary Superintending Engineer in regard to the neglect by the municipal authorities of the drainage and water systems in the Mysore City municipality

(2) Letters c/os 192 and 440 dated 17th September and 20th October 1900 respectively from the President, Municipal Council Mysore City, submitting his explanation on the several remarks made by the Sanitary Superintending Engineer regarding the drainage and water works of the City

Order thereon

From the above it appears that the Sanitary Superintending Engineer

R.L. 1538

No 11466-8 / L.T.46-00 dt 28/2/01.

Re: our file of papers to Chief Engineer & do do do do Superintending Engineer

considers ~~complainants~~ that the municipal authorities have neglected the drainage and water works ~~of the~~ constructed from Provincial funds at a large outlay, while the President of the municipal Council explains replies that, City ~~refutes every one of~~ the statements made by the former. With assertions are not correct. on the one side and denials on the other, it is difficult for Govt in the municipal Dept to decide exactly wherein defects and shortcomings lie and how the blame is to be apportioned. They are therefore of opinion that the several points referred to ~~involved in the complaints~~ by Mr Lee in his letter and replied to ~~returns~~ by Mr Macleod should be thoroughly investigated on the spot by such unprejudiced and high officers as the present

present heads of the Public
works and Medical Depts.
It is also desirable that the
control over the drainage
and water works, which
were constructed ~~at a heavy~~
~~cost~~ from Provincial funds
and are being maintained
from municipal funds should
rest in one body, preferably
the municipality, but it is
doubtful whether the existing agency under the Board
is sufficiently ~~has~~ skilled ~~agency~~ to properly
supervise the sewerage and
water supply schemes arrangements. Copies
of the above communications
will be accordingly be forwarded
to the Chief Engineer and the
Sanitary Commissioner with
a request that the matter
may be thoroughly investigated
and a joint reports submitted
on the several ~~complaints~~ points mentioned
in the above quoted letters
~~referred to~~, as also on the question
as to who should have
control,

contract over these works so as to ensure them properly

and under what conditions the same will be productive of good results and may be adopted.

Ms

12/2/07. Secretary

Dng 11/2/01

Reed. 18-2-01

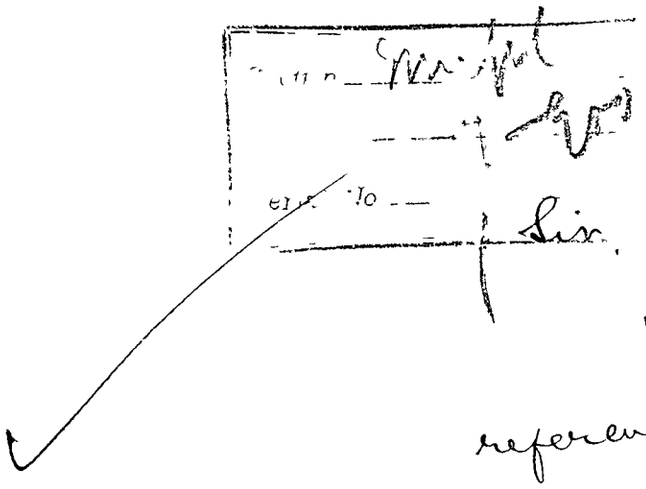
The Chief Engineer with copies of the correspondence read also Senior Surgeon & Sanitary Com with the Govt of Ulysses with President, and Town Ulysses City

Cl 15/2/07

To

The Chief Engineer

of Mysore



R.L 2013

1+8 11 / L.T. 46–1901 — 7/5/01

From the Chief Engineer

25809 8/5/01 L 205-6.

In inviting a kind reference to para VI of Mr. Mc Hutchin's note on the future control of the drainage and water supply systems in the Mysore City, received with your Memo No. 2033 D/ the 10th April 1901, I have the honour to state that Mr. Lee's memo on "Irrigation - Mysore Water Supply" wherein alluded to, has not been received in my office. I request you, therefore

Rec'd 6/5/01.

therefore, to be so good as to cause the same to be sent to me for reference.

Thanks

4/5/1901

For Self

3/5/01

(6)

SECRETARY'S 1586 1901 APR 10 Poore P W.D.

4812

CE OF T

11712
12-4-01.

FROM The Superintending Engineer
Western Circle.

Section
No

Dated Bangalore 3rd April 1901

Despatched

Received

General No 1221
No.

Enclosure No. 3

Ref to 2033-D/10-4 Secl No 5 The Chief Engineer of Mysore

rded with Enclosures to the Secy. Genel. & Rev: Depts:, with ce to Pros No. 11466-8 dated L.F 46-00 bruary last, for the deration & orders of Govt.

W. W. Chatterton

ff. Chief Engineer of Mysore.

With reference to Government Proceedings No 11466-8 dated L.F 46-00 28th February 1901, I have the honor to submit the enclosed joint report on the Scarcity Works in connection with the recent tattaing of the Kunnamkai and Irrigation Systems in the Mysore Circle.

2. In regard to the duty and control of the works the Superintending Engineer, Western Circle, is in charge of the Circle, and the Executive Engineers of the Divisions are responsible to him for the execution of the works in their respective Divisions.

Inclosure forwarded which contains a detailed memorandum on the subject. D.J 15/4

A.S.Chatterton
Offg 22/4/01

both the Sanitary Commissioners
a question, for disposal in the P. W. D.
by the undersigned on this subject is

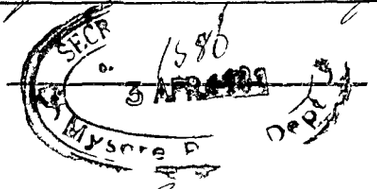
H. W. Gutteridge
Superintending Engineer.
Western Circle

Items of Enclosures

1 Joint report
with 2 enclosures
1 Note on Mypore city drainage
1 File

3

Mysore Fort Drainage



Government Proceedings nos 1146-8 & 46-or dated 28th February 1901, forwarding copies of Sanitary Superintending Engineers no 1290/257, dated 20th June 1900, in regard to the neglect of the drainage and Water Supply Systems in Mysore City, and letters nos 192 and 440, dated the 14th September and 20th October respectively, from the President, Mysore municipality submitting his explanations in regard to the drainage and water works of the city, and calling for a joint report from the Chief Engineer and Sanitary Commissioner on the several points mentioned in the above quoted letters, as also on the question as to who should have control over these works

---

We have the honor to submit

I Drainage

We inspected the drainage System in the Fort on the 18th Instant, and in regard to the particular points noticed in Sanitary Superintending Engineers No 1290/257 dated 20th June 1900, we found

1 Golgere Street

(1) The flushing tanks was in order, and we saw it used -

(2) Fountain attached to it is, to a certain extent, dilapidated, but this is to be attributed to its being built in bricks, instead of some more durable material, such as stone The surroundings were clean -

(3) Of the 10 house connections, the cisterns all had gratings of nondescript patterns and sizes it is not to be expected that these small gratings should not get choked now and again with the filth, sand, and garbage &c, thrown into the house connections but it would appear that the scavengers clear these out regularly - It would not be possible to prevent people, and children

Note — The works were visited in the morning betn 8 30, and 10 30, and the chief fault to be found with the System adopted having these open cisterns The floors of these open cisterns are below the level of the outlets (WP are covered with small gratings, leading down the Sewer pipes, so as form silt traps. cisterns consequently form.

if small vessels - proceeding the whole length of the street: a most objectionable scheme. These cisterns should be sealed (i.e covered in), and have a vertical ventilating pipe from each carry the foul gases up over the roofs of the houses. —

---

children from using these ~ masonry cisterns as latrines without a very large Staff of watchmen.

2. Stormwater Jetty Streets

(1) The gradings, of all sorts of shallows and slips, were done. The same remarks as on Kedumba Quay apply here in regard to the cisterns and the house connections.

(2) All the man-holes were in good order and repaired -

(3) Town Sewerage - Paddington Street

(1) Sewers, of all sorts and descriptions, were in bad repair and collapsed sewers were found choked up in them and flow obstructed there should be dug and all in the same district, so there ought to be some System of keeping a total in number of the Conservancy Staff.

(2) The main drain in the street was blocked but in a short time the obstruction was removed and drain put in order before we left the Street

(3) Flood water drains

The obstruction to which there would be during flood nothing

- in European cities the house-sewer generally reports when its connections are out of order, or not - supervision attended to

nothing could be judged at the time of inspection as to the efficiency of these drains. There was nothing fraudulent noticeable, only rags, straw, &c to be seen at the manholes, which would all be carried down by the first floods.

In this connection it was noticed that the Sewage pipes crossed the main flood water drains pretty frequently. These pipes (in some cases they are only some 1½ to 2 feet above the floor of the flood-water drains) would cause obstruction to the flow in high floods -

2. Manholes - The new covers should be rebuilt with cast-iron blocks instead of wood and care should be taken to level the surrounding roadways - always up to the same level, as often slightly higher than these

manholes get damaged they are being repaired.

5. The 12" main Sewer after passing out of the Fort is allowed to discharge into an open masonry culvert into this culvert the open Sewer from the Airport City also discharges, and the combined sewage is supposed to flow on through a 12" pipe to the Sewage farm! This 12 inch culvert has not been cleaned and ~~for~~ for has been stated that it has been so blocked for 2 years! This fact should at once be cleared, as the stench at the junction is most abominable

6. It is essential that every bend in the Sewage system of the Fort and outside Lands & the Farm, should have the ~~cocks~~ drain-cleaning eyes, with the iron manhole & pipe of each be attached, & raised thro'

it at least once in 10 days, this is not, it is believed, systematically done. Flushing ~~the pipes~~ only will not suffice to keep them sewage free & clean, as there is not, in our opinion, sufficient head nor capacity in the flushing tanks.

It was also noticed that the lamp holes are, apparently, not used, as they were not shown to us in our inspection.

II Water Supply

The following are the points in regard to which the Sanitary Superintending Engineer says the Municipality have "disobeyed Rules and shown neglect":

(1) That the Municipality have been indiscriminately giving house connections without regard to the Supply available in the mains

(2) That Kawangwa and private wells have been supplied with pure water.

(3) that the Sub-main near the Nawab's house for the supply of the Jagir Mohur, and the Palace, has been tapped in 34 places as under.—

4 public fountains
14 - 1" house connections
13 - 1/2" house connections

Total 34

(4) that most taps of the valves and stop-cocks remain (in many instances) without lids being provided.

(5) That some road boxes are buried under grounds, and are difficult to trace.

(6) That fourteen (14) are in a wrecked state of repair.

(7) That some valves are broken and missing entirely.

(8) That the Kasmji and Kamarah

Street is supplied with fire water connection, and that it is allowed 4 pm and overflow at night.

(9) That drain-wells are supplied by fire connections in Tiba Vrias Agraharam road.

(10) That several private wells are also supplied with fire water.

(11) That the 72" valve in Tiruvanmiyur road is out of order.

— " —

In regard to these

(1) The allegations as to disregard of public in giving fire connections indiscriminately, is answered by the Presidential Orders 2, 3, 4 of his No. 440 dated 20.10.1970, in the 2 references quoted by the President (copies of which are herewith furnished) cannot be considered in any opinion as sufficient to answer the Municipality in any all in the

connections which may be asked
for by citizens, without first
ascertaining whether the Supply
in the main with which they
are to be connected is sufficient
or not, for the purpose. It would
appear as if no system
is adopted of ascertaining the
Supply available in each
main and sub main before
granting additional connections
for the Supply of public fountains
or house connections. There is
no one competent to give this
information excepting the Sanitary
Superintending Engineer in our
opinion.

12 The Supply of tube-wells
& Channels and private wells
is stated by the Executive
Have been discontinued, with
the exception of two, viz
in Kamandi's Street; these
Channels are necessary for the
Supply

Probably a word missing in the manuscript, such as "Stand-box" is needed instead of it.

(3.) The Freedom of the Commissioners may be extended to a list of the number of streets at which [illegible] in Duncan Road (Duncan Street) or Duncan Road by the Commissioners from time to time should consider that there are at present

1 - 1½' connection for Public fountain
3 - 1
Total 4 connections for Public fountains
9 - 1" house connections
8 - ½' - ditto -
Total 21 connections and not 34 as stated by Sanitary Engineer, and of the 9 - 1 house connections 5 were put in at the request of the Commissioners and are [illegible] as necessary.

(4.) [illegible]

× endorsed (2)

also called Smith Street, and Public Office Road ?

few of the lids & value loose ~
and slab - cocks in wrong ' bush ~
these are replaced as soon as ~
possible This in our opinion
a matter & not these loose lids,
as any child can remove
them at will & play with -
(5) ' Road lights can always be
traced, when buried by raising'
the distance & the box from
2 marks on adjacent walls, as
' done as a rule elsewhere,
they are in an uncommon better
formed a little below the road
surface than - at -
(6 - many of the fountains do ~
' regime chain, and many ' taps
are leaky Since one paid &
wine' attendance constantly, and
many are become useless. The
dilapidated state of many of
the fountains in the ' thinning
by ill of soft and mean brickwork,
' lid will not stand the constant
' ' use to which a well selected
would be better -

Gradually

gradually rebuild. These in cut-Stone.

(7) Ho leaky roofs were seen, they are said to receive constant attention.

(8) Side (2) and the water was overflow when measured, and the Supply in sand & lee ark off or inglet.

(9) Stand-pipes, in place, have now been Rite' tested

(10) Private wells which were previously Disinfected have now, it is said by the Hon President been disconnected, and none are now Supplied with bore water.

(11) Ref. 12 water was in good working order when visited

III General Remarks

The Sanitary Inspector's Report was submitted a month ago, and although there is not much to be said in regard to it, the Report, in fact, is

them we anticipated except in the case of the 72" Sewage pipe outside the Park (Vide para 5 under "Drainage") no doubt much has been done since then to improve the matter. It is undesirable to waste time in argument as to whether things were in such a "bad" state as reported by Mr Lee: time is not! Mr Lee undoubtedly intended to bring defects to notice so that he was the designer both of the Park drainage scheme and of the water supply distribution, and he was naturally anxious that the works should be kept in state of efficiency (Ex no. 6) appear that the pollution of the Sewage in the pipe had been abstracted the sewage involved mixing & discharge into the above watercourse in

the gardens below the roadway
It is most desirable to clear the
Sewage - farm again, as the ground
below the roadway (close to the
Twin railway stables) must also
now be saturated with Sewage.
If the Municipality will not
undertake the work, it would be
better if it were under the
charge of the Sanitary Department &
the Sewage farm were fitted with
the land gardens and the
Sewage were lifted - by a
Wheel, Carrying an endless chain
with iron buckets attached.
This would obviate being troublesome
& very difficult & expensive to
[illegible] round on the Sewage
farm, which would be
[illegible] rather, but
[illegible]
[illegible] that would be
[illegible]

Just authorities to give it upon
a Stage journey in the formed
ages, I should be considerably
longer down the valley where the
Soil is good, and I could then
be well educated, especially as no
light would be wanted in the day
time as the men could then
plough in the fields where
the Stage is in the Scale as the
Soil and not rock the first -

I would like to write a little
more but I have not time
to,

Yours most sincerely

J. Ruskin

W. H. Gladstone

30.3.1901.

Office Note by W. Mc Hutchin Esqre
Superintending Engineer, Western Circle —

Lyppore City. Drainage and
Water Supply Systems —

In regard to the future
control of the Sewerage (Drainage)
and Water Supply Systems of Lyppore
City, it is my opinion that
these works should be entirely
in charge of the Municipal
President. but that the present
Staff at his disposal has not
the technical knowledge re-
-quired to deal properly with
the more complicated questions
certain to arise occasionally
in connection with additions
alterations or improvements to
the Sewerage and Water Supply
Systems. nor is the Staff com-
-petent to attend to the proper
maintenance and working
of the machinery at the Pump-
-ing Station. Such questions
have, at present to be referred
to the Sanitary Superintending
Engineer and this must lead
to delay and correspondence,
before the necessary orders can
be obtained. (Prompt, simple
and immediate decisions are nec-
-essary

in many instances which may occur.—

II.— It is absolutely necessary to appoint a properly trained and competent Engineer × to control both the drainage and Water Supply of the Mysore City; but for present requirements, it is thought one such Engineer would suffice to have direct charge of both the Bangalore City and the Mysore Water-Supply and Drainage Systems, as well as the new extensions at these towns now in progress, as well as those to be taken in hand in future; in fact all improvements and sanitary works within Municipal limits. This Officer may be of the rank and status of an Executive Engineer, and be the technical Adviser on the spot to both Municipalities.—

× under the orders of the Superintending Engineer

This Officer will be under the Sanitary Superintending Engineer of the Province.—

The opinion of the Sanitary Commissioner should be obtained on all questions of Sanitation, drainage and sources of Water Supply before projects are sent up to Government for sanction.—

III.— Under this Executive Engineer there should be a Municipal Engineer for each Municipality of the rank and status of an Assistant Engineer; and he should be a thoroughly qualified and trained Engineer as well as have experience of both drainage and Water Supply works.

The Municipal Engineer should be

be in direct charge of the works and staff of each City and be under the Municipal Resident in regard to all but purely technical questions on which latter he will take orders from the Executive Engineer.—

Under the Municipal Engineer there will be the usual staff of Overseers and Subordinates.—

IV.— The only point on which it is most difficult to arrive at a satisfactory solution is in connection with the Control of the Water Supply to the turbines!

The Channel which supplies the turbines is unfortunately also used to irrigate a large area of land beyond the pumping Station, and there are constant complaints from the plants from the ryots on the one hand as to deficiency of supply to their lands, and on the other hand constant complaints from the Pumping Station Staff of insufficient supply of water in the Channel for the turbines &c.?

For some reason or another it appears to be a favourite fad for the P. W. D. Assistant Engineers and Subordinates and the Pumping Staff to work in unison and until the Channel is placed entirely under one Authority

it seems impossible to prevent friction between the (practically) contending interests.—

If the Elevaroy Channel up to the Pumping Station, or even the whole length of it, is placed under the Municipal Engineer there would arise complications in the form of complaints from ryots under the Chickdevaraya Sagar and Vizianadi Channels as to deficient supply, as these Channels both practically depend on the same Anikat as the Elevaroy Channel?

× Some 18 Miles.

=

The Municipal President of Salem being also the Deputy Commissioner and Head of the Revenue Department in the District, it would appear desirable to transfer the control of the Anikats and the 2 Channels named to his direct control with the requisite staff; he would be able to deal with any questions which may arise without having to refer to the Public Works Department.—

=

It would be necessary in this case to appoint a Channel Superintendent to look after the 130 Miles of Channels, and he would probably require 2 Assistants under him of the status of an Overseer — one

× An Assistant Engineer.

for the Chickalevaragar and one for the Vijianadi and Alevaray Channels together with the Canal Moniagars and Inspectial Staffs on these Channels.—

V.— In this connection it may be pointed out that it would be desirable to revert to the system existing previous to 1879 (?) of appointing a Channel Superintendent in each District to have charge of all the large River Channels, and to be under the direct orders of the Deputy Commissioner in regard to all Minor works, such as Channel Repairs, and water Distribution, &c.; but in all questions of improvement or large works which may be thought desirable, the approval of the Chief Engineer or Superintending Engineer of the Circle should be first obtained.—

VI.— From the enclosed Memo: on "Turbine — Upper Water Supply" received from Mr. Lee, it is very evident that the pumps are not working at all satisfactorily and this can only be attributed to the fact of the Machinery not being properly erected after! It is most probable that the pump plungers are worn and do not fit the Cylinders accurately: or that the

Channels

Machinery has not been properly fitted up! It is only by having a competent and capable Mechanical Engineer that such a state of things can be avoided. —

The pumping staff should have quarters located in a more healthy place, nearer to a hydrant, to which they can go in turn to recruit their health —

W. D. McCulloch

Superintending Engineer
Western Circle.

Bangalore
2 April
1901

~~1900~~ 1899

From The Superintending Engineer
Sanitary Works Department

To The Vice President
Municipal Board
Ulsoor

Dated Bangalore 18th May 1899
Despatched 20th May 1899
Received

General No. 2121
No. 697
Enclosure No.

Referring to the marginally noted references received from him, regarding Water Supply House Connections applied for by certain individuals at Ulsoor, has the honor to inform the President that the undersigned is so much engaged with more important works that the above references have been long standing over. If the Vice President is satisfied that the granting of the Connection in the particular cases under reference will not reduce the supply to others he may grant them himself. —

2. — The applications, viz.,

Contd

and 27th January 1899 are herewith returned. The unsigned will be prepared to assist the Vice President with any advice he may require next week when Inspectors visiting Ellpore.

(Signed) Standish Lee.
Superintending Engineer
Sanitary Works

No. 86 of 9—8—98.
427 of 14—12—98.
526 of 27—1—99.

True Copy.

W. D'V. Stubbins
Superintending Engineer
Western Circle.

August 1897

Date.	Subject.	No. of Enclosures	References.
	House connection to the Hr.		
871 / 2445 7/10	Vide Supdt. Mysore. Dyer, Sub-Judge's house at Mysore.		Regd. No. 56/809 returned.
	Informns may be given.		

Bangalore
22nd March 1901

Extract from Register.
(Signed) Standish Lee
Superintending Engineer
Sanitary works.

True Copy.
W. D'W. Hutchins
Superintending Engineer
Western Circle.

1/4/01

26 MAR 1904
1904
V189

2/3

FROM The Vice President
City Municipality, Mysore

To The Chief Engineer of
Mysore,
Bangalore

Section ——
No ——
Serial No ——
Dated ——

Despatched } 23rd March 1904
Received

General No. 626
No.

Enclosure No. V 2

I have the honor to forward, herewith, a tracing showing the water mains, branches and valves, round about Jagan Mohan Palace and a statement showing the number of public fountains and house-connections from the several branches as personally desired by you. From the plan, it will be evident that the 3" branch marked K F.L, its continuation of 2½ marked L M,

and the 2½ branch EPH, are supplied from Willi
mann in Ramavilas Agrahar. Thus the 2½ viz.
DEFG, in mutt Street, or Krishna Vilas Agrahar
Street or Public office Road is independent of
two branches EPH and KFLM, and supplies our
4 (four) 1" Connections to public fountains and
5 (five) 1" and 7 (seven) ½" house connections as
detailed in the Statement

I have the honor to be,
Sir,
Your most obedient Servant
H Shanyasi Raju
Vice President

Statement Showing the Connections from the Branch and main pipes round about Jnohan Palace.

The branch or main pipe from which the Connection is given	Size bore	Name of the owner of house to which connection is given	Public fount	Remarks.
2½ branch along main Street or public office road marked DG in plan	1½	"	Dewans Agrahar	By Sanitary Dept
	1"	"	Main Street	
	1"	"	do	
	1"	"	Lakshmi Vilas	By Municipality
	1"	Dewan's House	"	By Sanitary Dept
	1"	Anathalaya		By Municipality
	½"	Lama Jois	"	do
	1"	Krishnamoor thy Rc	"	By Municipality
	½"	A Krishna Rao	"	Municipality
	1"	Maharany's girls Compound	"	
	1"	Bath room	"	By Sanitary department
	½"	T. V. Narasimhachar	"	By Municipality, on marriage occasion
	½"	agan mohan palace	"	By Municipality
	½"	Bath room	"	By Municipality, on marriage occasion
	1"	Gaslight Cistern	"	By Municipality, marriage occ.
	1"	do Cook room	"	By Municipality, marr
	1"	do Gaslight Cistern	"	By Municipality, mar

7	2½ branch above—	½"	V.V. Narasimhachar	"	By Municipality
8		½"	D. H. Narayappa	"	By Municipality.
9		1"	D. Padmanabha Rao	"	By Municipality
20		½"	D. M. Krishnaiyengar	"	By Municipality
21		½"	D. Lecconte's area	"	By Municipality
	Total.		17 house connections	4 Public fountains	4 (four) 1" connections to Public fountains, since (9). 1" house connections &c 3 ½" connections, 8 (eight) of 1" connections have ½ taps.
	Five of the C[illegible] Maharani Girls College the Palace. So will be only 5[illegible] pri[illegible]		to Jag given by Speci be closed and) 1" & 7 (Seven ~~eight~~) ½" House C This line supersed	Palace & orders of there- ins & four by the Sanitary	
	Inspection Tour.				
1 II	2½ branch in Narayan Sastry Rd	1"	Jagan mohan Palace Cookro	"	By Municipality, marriage occ
2	Marked E H on the plan	1"	Maharani Girls' school works	"	By Sanitary Dept
3		1"	Dewan's House	"	By Sanitary Dept
4		½"	Javali angadi Krishniengr	"	By Municipality
5		1"	Goonja. Narasimhia's Palas	"	By Municipality, marriage
6		1"	Raghavachar	"	By ~~Municip~~ Sanitary Dept
7		½"	Soundara Sastriar	"	By Municipality
8		½"	Rev. Sircs Sedar Srinivas	"	By Municipality.
	In this line there are 5 (five) 1" House connections			3 (three) ½" connections.	
1 III	3" branch from Rama Vilas	1"	L. Raghavachar	"	By Municip
2	Agrahar through Jagan mohan	½"	D. L. Narasimhiah	"	By Municip
3	Palace and Kothwal Krishnappa	½"	D. Harigiriachar	"	By

B		1"	roadside		
7		1"	bath room	"	"
8		1"	Do	"	"
		1"	Bidadee Salt	"	"
10		1/2"	P. Raghavendra Rao	"	By Municipality
1		1/2"	P.S. Achutha Rao.	"	"
2		1"	Coffee planter Krishnaiya	"	"
3		1"	"	Lakshmi Vilas Agrahar	"
4		1"	"	Kotwal Krishnappa St	By Sanitary Dept

Items in this line 8 (eight) 1" house connections & 4 (four) 1/2 house connections, and 2 (two) 1" public fountain

W.	2 1/2" branch in Mohdin Sahib Karkhana Street Marked L M on Machine	1"	Public fountain Devigowndappa		
2		1"	"	Gangammana goody gully	By Municipality
		1"	"	Bellikatige missal	By Sanitary Dept
		1"	"	Mohdin Sahib Karkhana Road	By Sanitary Dept
5		1"	"	Well in advocate Ramanna's Street	By Municipality

Items in this branch here are only 5 (five) public fountains.

H. Thayumanavar

C. S. Krishnaswamy Aiyer
Asst Engineer

H.H The Maharanis
Womens Hospital
Police Station
Shriram
Pete
Road
Krishnappa St.
Dewan Bhimia Street
West
Mohadin Saib
Karkhana Street
Nanjundeshwara Temple
Krishna Vilas
Venkatramsami Temp.
Agrahar
Kotwali
Street
Prakalsami Mat
Jagan Mohan Palace
Dewan's Road
Govt. Workshop
Lakshmi Vilas
Agrahar St.
Rama Vilas
Bandikere Lane
Agrahar St.
Road
Bandikere
Cross
Road

AC. 12" main in Dewan's Road

DG. 2½" Branch in Public Office Road
or Mint Street

CO. 12" Main in Ramanvilas Road

EH. 2½" Branch in Niranjan Sastry's Road

KL. 3" Branch from Ramanvilas Agraharam
through payan mohana pillai and
Kotwal Krishnaprabhu's Street
to the junction of Mohadevan salt-
Kharkhana

LM. 2½" Branch in Mohadevan salt-
Kharkhana Street

I Valve

C.S. Krishnamoorthy Ayyar
20/3/07 Jnl Engineer

~~189~~ 1901 L 21

MYSORE P. W DEPARTMENT.

No. 2580 13187

From 10-5-01.

The Chief Engineer of Mysore.

To ~~The Secy to the Govt of~~ Genl & Revenue Departments

Dated Bangalore, 5 ~~189~~ 1901

Despatched

Enclosure No. 1 letter

SUBJECT.

Forwarding Mr Standish Lee's memo on "Turbine-Mysore Water Supply."

L 7
10-1-01

No. 2580

MYSORE P. W. DEPARTMENT,

CENTRAL OFFICE,

Bangalore, 8—6—1902

From

The Chief Engineer of Mysore, Bangalore.

To

The Secretary to the Govern ent of Mysore .

General and Revenue Dpertments.

SIR,

I have t e honor to forward in original, Mr. Stanley Le's memo on "Turbine-Mysore Water Supply", asked f in your letter No.1451/ L.F.4-1900 of 7th Instant.

I have the honor to be,
Sir,
Your most obedient servant,

Asst Secretary

Office of the Chief Engineer of Mysore.

81.4

Memo — re "Turbines" — My Sons Water Supply:—

The maximum speed of the Turbines is 25 revolutions per minute, but they are never worked at more than 21 revolutions per minute — During last month, owing to the Dawaroo Channel running very low, it was not ~~been~~ possible to work them at more than 15 revolutions per minute. The theoretical quantity pumped by both turbines when running 21 revolutions per minute is 196,272 cft: per day, and at 15 revolutions per minute is 140,170 cft: per day.

The actual quantities delivered are:— 112,320 cft: per day and 61,176 cft as calculated to dipsticks in the 8 gun condensers "and 6"—

The rate of consumption will be as follows for a population of 30,000 —

Revolutions	Theoretical discharge	Diameter of Condemb	actual quantity received	Time
21	196272	8"	112320	9 Gr Hours.
15	140170	6"	61176	4 3/4 -do-

Bangalore
22-3-1901